

RECEIVED

Access
#43
8/5/03 RS

PTO/SB/68 (07-03)

Approved for use through 7/31/2003. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

AUG 5 2003
REQUEST FOR ACCESS TO AN ABANDONED APPLICATION UNDER 37 CFR 1.14

Bring completed form to:
File Information Unit
Crystal Plaza Three, Room 1D01
2021 South Clark Place
Arlington, VA
Telephone: (703) 308-2733

In re Application of

Application Number	Filed
08/836,349	11-20-1997

Paper No. _____

I hereby request access under 37 CFR 1.14(a)(1)(iv) to the application file record of the above-identified ABANDONED application, which is identified in, or to which a benefit is claimed, in the following document (as shown in the attachment):

United States Patent Application Publication No. 585409, page, _____ line _____.

United States Patent Number _____, column _____, line, _____ or

WIPO Pub. No. _____, page _____, line _____.

Related Information about Access to Pending Applications (37 CFR 1.14):

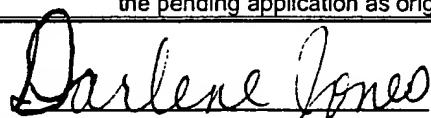
Direct access to pending applications is not available to the public but copies may be available and may be purchased from the Office of Public Records upon payment of the appropriate fee (37 CFR 1.19(b)), as follows:

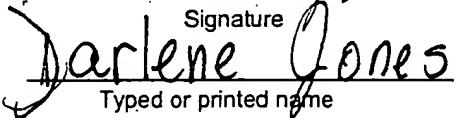
For published applications that are still pending, a member of the public may obtain a copy of:

the file contents;
the pending application as originally filed; or
any document in the file of the pending application.

For unpublished applications that are still pending:

- (1) If the benefit of the pending application is claimed under 35 U.S.C. 119(e), 120, 121, or 365 in another application that has: (a) issued as a U.S. patent, or (b) published as a statutory invention registration, a U.S. patent application publication, or an international patent application publication in accordance with PCT Article 21(2), a member of the public may obtain a copy of:
the file contents;
the pending application as originally filed; or
any document in the file of the pending application.
- (2) If the application is incorporated by reference or otherwise identified in a U.S. patent, a statutory invention registration, a U.S. patent application publication, or an international patent application publication in accordance with PCT Article 21(2), a member of the public may obtain a copy of:
the pending application as originally filed.


Signature


Typed or printed name

Date

FOR PTO USE ONLY

Approved by: _____
(initials)

Unit: _____

Registration Number, if applicable

(703) 418-0330

Telephone Number

This collection of information is required by 37 CFR 1.14. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. BRING TO: File Information Unit, Crystal Plaza Three, Room 1D01, 2021 South Clark Place, Arlington, VA.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



US006585409B2

(12) **United States Patent**
Schmidt et al.

(10) Patent No.: **US 6,585,409 B2**
(45) Date of Patent: ***Jul. 1, 2003**

(54) **TEMPERATURE-MEASUREMENT DEVICE WITH DIFFRACTIVE OPTICS**

(75) Inventors: Volker Schmidt, Berlin (DE); William Menchine, Santa Cruz, CA (US); Hans-Jurgen Rostalski, Berlin (DE); Frank Wyrowski, Jena (DE)

(73) Assignee: Raytek Corporation, Santa Cruz, CA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: 10/039,758

(22) Filed: Oct. 27, 2001

(65) **Prior Publication Data**

US 2002/0061048 A1 May 23, 2002

Please get
Related U.S. Application Data

(63) Continuation of application No. 08/836,369, filed on Oct. 20, 1997.

(30) **Foreign Application Priority Data**

Aug. 3, 1995 (DE) 195 28 590
Jul. 29, 1996 (WO) PCT/EP96/03330

(51) **Int. Cl. 7** G01K 1/00; G01J 5/02

(52) **U.S. Cl.** 374/121; 374/141; 33/DIG. 21;

362/259; 250/491.1; 356/399

(58) **Field of Search** 374/120, 121, 374/124, 141, 208; 33/DIG. 21; 362/35, 259; 356/49, 399; 250/491.1

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,315,150 A * 2/1982 Darringer et al. 250/338.1

1,494,881 A 1/1985 Everest 374/124

(List continued on next page.)

FOREIGN PATENT DOCUMENTS

DE	29 19 899 B1	10/1980
DE	32 13 955 *	4/1982
DE	32 13955 A1	10/1982
DE	36 03464 A1	10/1986
DE	37 10486 C1	8/1988
EP	0 458 200 B1	7/1994
GB	2203537	* 10/1966
GR	2 203 537 A	10/1988
JP	57-22521 *	2/1982
JP	62-12848 *	2/1982
JP	62 12848	3/1987

*Do NOT
need*

OTHER PUBLICATIONS

The Optometrics Group, *Transmission Grating Beamsplitters*, pp. 60,61, 1993.*

Patricia Mokry: "Unique Applications of Computer-Generated Diffractive Optical Elements", Polaroid Corporation, Optical Engineering, Cambridge MA 02139 (1989).

Thomas K Gaylord, et al: "Analysis and Applications of Optical Diffraction by Gratings" *Proceedings of the IEEE*, vol. 73(5) pp. 894-937; May 1995.

Primary Examiner—Diego Gutierrez

Assistant Examiner—Mirellys Jagan

(74) **Attorney, Agent, or Firm**—Law Office of Charles E. Krueger

(57) **ABSTRACT**

A device for temperature measurement uses an optical system to image the heat radiation emanating from a measurement spot on an object of measurement onto a detector. A sighting arrangement is also provided which has a diffractive optical system by which a light intensity distribution is produced which corresponds to the position and size of the measurement spot on the object of measurement.

2 Claims, 7 Drawing Sheets

